

## IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of

Tsuguo FUKUDA, et al.

Conf.

Application No. **NEW NATIONAL PHASE**

Group

Filed September 28, 2005

Examiner

METHOD FOR ANALYZING IMPURITIES (COLOR CENTERS) OF FLUORIDE AND  
PROCESS FOR PRODUCING MATERIAL FOR GROWING SINGLE CRYSTAL

**INFORMATION DISCLOSURE STATEMENT**  
**(SUBMISSION CONCURRENT WITH THE**  
**FILING OF A NEW PATENT APPLICATION)**

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

September 28, 2005

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, and in fulfillment of the duty of disclosure under 37 C.F.R. § 1.56, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION**

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

**II. COPIES**

- ☐ Copies of the U.S. patents or publications are not submitted since the USPTO has waived their submission for applications filed after June 30, 2003.
- ☒ Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☐ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should have been forwarded from the International Search Authority pursuant to the trilateral agreement between the USPTO, EPO and JPO, or they are U.S. patents or U.S. published applications. If copies are needed, please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)

2020 Rec'd PCT/PTO 28 SEP 2009

a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached non U.S. patents, non U.S. patent application publications, foreign publications, or other information in the English language do not require a statement of relevancy.

b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

English Abstracts

c. ☒ **FOREIGN SEARCH REPORT OR ACTION**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☐ **OTHER**

The following additional information is provided for the Examiner's consideration.

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If The Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned.

Respectfully submitted,

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Enclosures: ☒ Form PTO-1449(s)  
☒ Documents  
☒ Foreign Search Report  
☐ Other: \_\_\_\_\_

<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)	Attorney Docket No.: <b>8075-1014</b>	Application No.: <b>NEW NATIONAL PHASE</b>
	Applicant: <b>Tsuguo FUKUDA, et al. 10/551113</b>	
	Filing Date: <b>September 28, 2005</b>	Group Art Unit:

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing date (if appropriate)

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	61-058833	3/26/1986	JAPAN			*	
	07-007201	10/1/1995	JAPAN			*	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	H. Sato et al.: "Induced Absorption Phenomena, Thermoluminescence and Colour Centres in KMgF, BaLiF and LiCaAlF Comple Fluorides", Japanese Journal of Applied Physics, Vol. 41, Part 1, No. 4A, April 2002, pages 2028 to 2033; see section 2.2, 3.1, Fig. 1
	Shin'ichiro TOZAWA et al: "Kogaku Zairyo CaF no Kaishitsu", Tohoku University Kinzoku Zairyo Kenkyusho Gijutsu Kenkyu Hokoku, IISN: 1341-*3422, No. 19, March 2001, pages 29 to 32; section 2, Par. Nos. [001] to [0002]; section 3, last Paragraph; Figs 1, 2, 5
	M, Brekhovskikh, et a.,: "Influence of fluorooxidizers on scintillation properties of fluoro hafnate glass doped with Ce", Journal of Non-Crystalline Solids, Vol. 277, Issue 1, November 2000, pages 68 to 71
	H. Sato, wet al.: "Improvement in the quality of LiCaAlF6 single crystal window material", Oprical Materials, vol. 24, Issues 1-2 (Proceedings of the Fifth French-Israeli Workshop on Optical Properties of Inorganic Materials: 08 December, 2002 (08.12.02) - 12 December, 2002 (12.12.02), October-November, 2003; pages 123 to 127

EXAMINER:	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

\* English language abstract provided for the Examiner's convenience

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Y&T September 28, 2005